

**ULTRAPAR**

**UP1000**

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## User's Manual

Version 1.0 December 2000

ENGLISH



[www.behringer.com](http://www.behringer.com)

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## SAFETY INSTRUCTIONS

- CAUTION:** To reduce the risk of electrical shock, disconnect the spotlight from the mains before cleaning or servicing the unit. No user serviceable parts inside; refer servicing to qualified personnel.
- WARNING:** To reduce the risk of fire or electrical shock, do not expose the spotlight to rain or moisture.

### DETAILED SAFETY INSTRUCTIONS:

All safety and operating instructions should be read before the spotlight is operated.

#### Retain instructions:

The safety and operating instructions should be safely stored for future reference.

#### Heed warnings:

All warnings on the spotlight and in the operating instructions should be adhered to.

#### Follow instructions:

All operating and user instructions should be followed.

#### Water and Moisture:

The spotlight has not been designed for outdoor use, and should be used in dry rooms only, with a humidity below 90%. Don't use the spotlight near water (e.g. bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.).

#### Prior to operation:

Be sure to install a lens and attach the protective mesh before you attempt to operate the spotlight. The locking bracket of the color frame must be locked before the spotlight is switched on.

#### Suspension:

The spotlight must always be mounted and secured using the corresponding retention holes in the mounting bracket. When using a stand or hook clamp, be sure to attach the spotlight with a tightened steel screw (diameter approx. 12 mm), washer and locknut. Additionally, the spotlight must be secured on the truss or stand with a safety steel cable.

#### Adjustment:

The spotlight must be mounted at a minimum distance of 2 m from the illuminated object, as the light beam can heat any such object to a temperature of 90°C.

#### Ventilation:

The spotlight should be situated so that its location or position does not interfere with its proper ventilation. For example, the spotlight should not be situated on a bed, sofa rug, or similar surface; the same applies to truss-mounted operation: proper ventilation must always be ensured.

#### Heat:

The spotlight should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat. Never mount the spotlight close to flammable surfaces.

#### Power Source:

The spotlight should be connected to a power supply only of the type described in the operating instructions or as marked on the spotlight.

#### Grounding:

Precautions should be taken so that the grounding means of the spotlight are not defeated.

#### Power-Cord Protection:

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles and the point where they exit from the spotlight. Chapter 1.2 describes how to attach the mains plug, which must be installed by qualified personnel and in compliance with national installation guidelines. Also, compliance of the power cord with section 16 of the standard EN-60065 must be ensured.

#### Cleaning:

The spotlight should be cleaned only as recommended by the manufacturer.

#### Non-use Periods:

The power cord of the spotlight should be unplugged from the outlet when left unused for a long period of time.

#### Object and Liquid Entry:

Care should be taken so that objects do not fall and liquids are not spilled into the spotlight casing through openings.

#### Damage Requiring Service:

The spotlight should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the spotlight; or
- The spotlight has been exposed to rain or moisture; or
- The spotlight does not appear to operate normally or exhibits a marked change in performance; or
- The spotlight has been dropped, or its casing damaged.

#### Servicing:


The user should not attempt to service the spotlight beyond that which is described in the operating instructions. All other servicing should be referred to qualified service personnel.

# 1. INTRODUCTION

Congratulations! With the BEHRINGER ULTRAPAR UP1000 you purchased a first-class Par spotlight mounted in a compact, extremely robust and durable casing and featuring a comprehensive range of accessories.

## 1.1 Before you begin

Your ULTRAPAR was carefully packed in the factory and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit.


 **If the unit is damaged, please do not return it to BEHRINGER, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted. Shipping claims must be made by the consignee.**

## 1.2 Mains connection

Prior to the initial operation of the spotlight UP1000, a mains plug must be attached to the power cord. Please use a commercially available shockproof plug with a minimum power rating of 2.5 A (220 / 240 V). The wires of the connecting cable are clearly marked according to their function.

The spotlight can be operated from a power supply of max. 120 V / 5 A or 240 V / 2.5 A. The mains frequency must be 50 / 60 Hz.

 **Please note that your ULTRAPAR spotlight must be grounded properly. For your own safety, you should not remove or defeat the ground connection of the spotlight or power cord.**

 **Make sure that the spotlight will be installed by qualified personnel only. Proper grounding of the installer must be ensured both during and after installation of the spotlight, otherwise electrostatic discharge or similar effects might impair the performance of your UP1000.**

# 2. HPL LAMP



Your ULTRAPAR spotlight should be equipped exclusively with recommended HPL halogen lamps made by GE Lighting: Use the models GKV 600 W/230 V (item # 35376) or 575 W/115 V (item # 47665). Make sure that the HPL lamp matches the supply voltage provided in the location in which the spotlight is operated.


 **If a lamp other than those recommended by BEHRINGER is used, your ULTRAPAR may not work in compliance with CE safety standards, which will void your warranty. Additionally, this spotlight might infringe a patent.**



 **If the HPL lamp is operated with a voltage surpassing its nominal operating voltage, it can be damaged/destroyed or its service life reduced considerably.**

## 2.1 Disassembling the lamp casing / installing an HPL lamp

Lamps that have been deformed or damaged through heat, must be replaced immediately! Please proceed as follows to replace the HPL lamp:

- ▲ Disconnect the spotlight from the mains power supply, and unscrew the thumb screw on the rear of the lamp casing  (G 9.5 socket).
- ▲ Carefully pull out the lamp casing  from the rear part of the spotlight.
- ▲ Carefully take the HPL lamp out of its carton, by holding it at its socket:

 **Never touch the glass bulb of the HPL lamp, as this can reduce the lamp's service life considerably. If you touch the glass bulb during installation, wipe it clean with a lint-free cloth damped with ethyl alcohol (spirit).**

- ▲ Press the lamp socket into the holder inside the lamp casing  until the HPL lamp is safely mounted in place. The entire bottom side of the lamp socket must be in contact with the casing.
- ▲ Remount the casing and connect it to the grounding cable  coming from the spotlight. Fasten the thumb screw until the casing is safely mounted in place.

## 3. LENSES

Your ULTRAPAR spotlight has been delivered with four glass lenses.

 **The glass pane installed in the spotlight after delivery is used to protect the reflector during transit, and must be replaced by one of the four lenses enclosed with the unit. Never operate your ULTRAPAR without a lens properly installed!**


The shape of each lens determines the light beam produced by the spotlight:

Name	Quality	Properties
Narrow-spot lens	Transparent glass	Round beam (15°)
Spot lens	Grain screen glass	Round, slightly diffuse beam (19°)
Medium flood lens	Glass with few facets	Oblong beam (21° x 34°)
Wide medium flood lens	Glass with many facets	Oblong beam (30° x 51°)

Tab. 3.1: ULTRAPAR lenses and their features

 **Defective lenses (scratches, cracks, etc.) must be replaced immediately.**


### 3.1 Dismounting the lens

 **The lens gets very hot during operation of the spotlight, so let it cool down sufficiently before you attempt to dismount it!**

- ▲ Disconnect the spotlight from the mains and wait until it has cooled down.
- ▲ Place the spotlight on a flat and stable surface. Never mount or dismount the lens, while the spotlight is fixed to a truss or stand.
- ▲ Remove the protective mesh [12]: press its two spring shackles, then pull out the mesh.
- ▲ Directly in front of the lens, you will find a movable metal clamp [4] attached to the lens ring. Turn the lens ring, until the metal clamp is located on the top side of the spotlight (directly below the locking bracket [14]).
- ▲ Tilt the front side of the spotlight forward by at least 45°.
- ▲ Push the movable metal clamp upward to dismount and pull out the lens [10].

### 3.2 Mounting the lens

- ▲ Tilt the spotlight forward and turn the lens ring, until the movable metal clamp [4] is located on the top side of the spotlight (directly below the locking bracket [14]).
- ▲ Insert the lens with its rounded side towards the rear. The lower edge of the lens must be located behind the projecting elements [6] of the lens ring.

 **Inserting the lens with its rounded side towards the front does not effect the optics of your ULTRAPAR, but will make it more difficult to dismount the lens later on.**

- ▲ Press the upper edge of the lens slightly towards the rear, until it locks in behind the metal clamp [4].
- ▲ Installation of the protective mesh [12]: Press the two spring shackles of the protective mesh and place it directly in front of the lens ring [5]. There are two slots in the die-cast casing of your ULTRAPAR for the “feet” of the protective mesh. The two spring shackles must be located directly below the locking bracket [14].

## 4. COLOR FRAME


The color frame [11] is used to hold the color foils. Please observe the following instructions to install the color frame:

- ▲ Detach the locking bracket [14] on the top side of the spotlight, by pushing it to the side. Then, open the bracket and tilt it towards the rear.
- ▲ Insert the color frame into the frame holders [9] and [13], i.e. the outer guiding rail (with stops on three sides) on the front side of the ULTRAPAR.
- ▲ Push the locking bracket [14] to the side and move it down until it locks in.





## 5. CLEANING THE REFLECTOR

- ▲ Disconnect the spotlight from the mains and remove the lamp casing as described in chapter 2.1.
- ▲ Remove the color frame (chapter 4), the protective mesh and lens (chapter 3.1), so that the reflector is easily accessible.
- ▲ Cleaning the reflector: Use oil-free compressed air or a soft, lint-free cotton cloth. Tenacious stains can be removed by adding some mild soap water, however, don't forget to remove all soap water remnants as well!
- ▲ Remount the spotlight (see chapters 2.1 and 3.2).

 **Never** clean the reflector with commercial window cleaners, as the chemical substances contained in these agents can damage the reflective coating!

 **Don't use paper towels or other material with a rough surface to wipe the reflector clean, so as to avoid scratches damaging the reflector surface.**

## 6. SUSPENDED INSTALLATION

Use the mounting bracket  to attach your spotlight to a stand or truss. Always use steel screws with a diameter of approx. 12 mm to fasten the spotlight. Your UP1000 must be secured with an additional safety steel cable . Use the steel cable fixed to the spotlight casing (eyelet ). Once the spotlight has been adjusted, it must be secured in place with the locking screw .

## 7. SPECIFICATIONS

Power	575 W max. (220 V / 240 V)
Max. room temperature	$T_a = 45^{\circ}\text{C}$
Max. temperature of exterior surfaces	$T_{\text{max}} = 175^{\circ}\text{C}$
Dimensions (Height * Diameter)	approx. 11 3/4" (300 mm) * 9 1/4" (237 mm)
Weight	approx. 3.2 kg

## 8. WARRANTY

### § 1 WARRANTY CARD/ONLINE REGISTRATION

To be protected by the extended warranty, the buyer must complete and return the enclosed warranty card within 14 days of the date of purchase to BEHRINGER Spezielle Studioteknik GmbH, in accordance with the conditions stipulated in § 3. Failure to return the card in due time (date as per postmark) will void any extended warranty claims.

Based on the conditions herein, the buyer may also choose to use the online registration option via the Internet ([www.behringer.com](http://www.behringer.com) or [www.behringer.de](http://www.behringer.de)).

### § 2 WARRANTY

1. BEHRINGER (BEHRINGER Spezielle Studioteknik GmbH including all BEHRINGER subsidiaries listed on the enclosed page, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not due to normal wear and tear and/or improper handling by the user, BEHRINGER shall, at its sole discretion, either repair or replace the product.

2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.

3. Warranty claims other than those indicated above are expressly excluded.

### § 3 RETURN AUTHORIZATION NUMBER

1. To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER (see enclosed list) during normal business hours **BEFORE** returning the product. All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number.

2. Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by BEHRINGER.

3. Shipments without freight prepaid will not be accepted.

### § 4 WARRANTY REGULATIONS

1. Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement by BEHRINGER under the terms of this warranty will be repaired or replaced within 30 days of receipt of the product at BEHRINGER.

2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation.

3. Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user.

This also applies to defects caused by normal wear and tear, in particular, of faders, potentiometers, keys/buttons and similar parts.

4. Damages/defects caused by the following conditions are not covered by this warranty:

- ▲ misuse, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals.
- ▲ connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.
- ▲ damages/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER.

5. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.

6. If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.

7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

### § 5 WARRANTY TRANSFERABILITY

This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of BEHRINGER.

### § 6 CLAIM FOR DAMAGES

Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product.

### § 7 OTHER WARRANTY RIGHTS AND NATIONAL LAW

1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

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BEHRINGER Spezielle Studioteknik GmbH, Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Münchheide II, Germany

Tel. +49 (0) 21 54 / 92 06-0, Fax +49 (0) 21 54 / 92 06-30